



# BioMajesty®

Comparación de métodos (Suero; n=99)	
Test x	Cistatina C competidora (BN ProSpec®)
Test y	Cistatina C FS de DiaSys (BioMajesty® JCA-BM6010/C)
Pendiente	0,982
Intersección	-0,001 mg/L
Coeficiente de correlación	0,998

\*\* Concentración mensurable la más baja que se distingue de cero; Medio + 3 SD (n = 20) de un espécimen sin analito.

## Valores de Referencia

[mg/L]

Niños [15]	
Prematuros	0,8 – 2,3
Neonatos a término	0,7 – 1,5
8 días – 16 años	0,5 – 1,3
Adultos [16]	0,61 – 1,01

Cada laboratorio debe comprobar si los valores de referencia indicados son adecuados para sus pacientes y si es necesario, determinar sus propios valores de referencia.

## Bibliografía

1. Erland J.E., Randers E., Kristensen J.H. Reference intervals for serum cystatin C and serum creatinine in adults. Clin Chem Lab Med 1998; 36(6):393-397.
2. Lamb E., Newman DJ, Price CP. Kidney function tests. In: Burtis CA, Ashwood ER, Bruns DE, editors. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. 4th edition St. Louis Missouri: Elsevier Saunders; 2006; p. 823-835.
3. Kyhse-Andersen, Schmidt C., Nordin G. et al. Serum cystatin C, determined by a rapid, automated particle-enhanced turbidimetric method, is a better marker than serum creatinine for glomerular filtration rate. ClinChem 1994; 40(10):1921-6.
4. Le Bricon T., Leblanc I et al. Evaluation of renal function in intensive care: plasma cystatin C vs. creatinine and derived glomerular filtration rates Clin Chem Lab Med 2005; 43(9):953-957.
5. Le Bricon T., Thervet E., Benlakéhal M. et al. Changes in Plasma cystatin C after renal transplantation and acute rejection in adults. Clin Chem 1999; 45(12):2243-9.
6. Ustundag Y., Samsar U. et al. Analysis of glomerular filtration rate, serum cystatin C levels, and resistive index values in cirrhosis patients. Clin Chem Lab Med 2007; 45(7):890-94.
7. Stabuc B., Vrhovec L. et al. Improved prediction of decreased creatinine clearance by serum cystatin C : Use in cancer patients before and during chemotherapy. Clin Chem 2000; 46(2):193-7.
8. Pucci L., Triscornia S., Lucchesi D. et al. Cystatin C and estimates of renal function: searching for a better measure of kidney function in diabetic patients. Clin Chem 2007; 53(3):480-8.
9. Strevens H, Wide-Swensson D, Grubb A. Serum cystatin C is a better marker for preeclampsia than serum creatinine or serum urate. Scand J Clin Lab Invest 2001; 61:575-80.
10. Bakker AJ, Mücke M. Gammopathy interference in clinical chemistry assays: mechanisms, detection and prevention. ClinChemLabMed 2007;45(9):1240-1243.
11. Guder WG, Zawta B. et al. The Quality of Diagnostic Samples. 1st ed. Darmstadt: GIT Verlag; 2001; p. 24-5.
12. Wiesli P., Schwegler B. et al. Serum cystatin C is sensitive to small changes in thyroid function. Clinica Chimica Acta 2003; 338: 87-90.
13. Young DS. Effects of Drugs on Clinical Laboratory Tests. 5th ed. Volume 1 and 2. Washington, DC: The American Association for Clinical Chemistry Press 2000.
14. Young DS. Effects on Clinical Laboratory Tests - Drugs Disease, Herbs & Natural Products, <https://clinfx.wiley.com/aaccweb/aacc/>, accessed in August 2021. Published by AACC Press and John Wiley and Sons, Inc.
15. Soldin SJ, Brugnara C, Wong EC, American Association for Clinical Chemistry. Pediatric Reference Intervals. Sixth ed. Washington DC: AACC Press; 2007.
16. Erlandsen EJ, Randers E. Reference intervals for plasma cystatin C and plasma creatinine in adults using methods

traceable to international calibrators and reference methods. J Clin Lab Anal. 2018; 32:e222433.



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\* Fluid Stable = Líquido Estable

## Cystatin C FS

Chemistry code 10 715

### Application for serum samples

This application was set up and evaluated by DiaSys. It is based on the standard equipment at that time and does not apply to any equipment modifications undertaken by unqualified personnel.

Analytical Conditions	
R1 volume	90
R2e volume	0
R2 volume	30
R1 diluent vol	0
R2e diluent vol	0
R2 diluent vol	0
Sample vol (S)	1.0
Sample vol (U)	1.0
Reagent 1 mix	strong
Reagent 2e mix	weak
Reagent 2 mix	strong
Reaction time	10

Endpoint Method	
Re.absorb (u)	9.999
Re.absorb (d)	-9.999

Calculation Method Setting	
M-DET.P.I	0
M-DET.P.m	41
M-DET.P.n	42
S-DET.P.p	22
S-DET.P.r	23
Check D.P.I.	0
Limit value	0.003
Variance	10
Reac.type	Inc

Sub-analy. Conditions	
Name	CYSC
Digits	3
M-wave L.	596
S-wave.L	****
Analy.mthd.	EPA
Calc.mthd.	MSTD
Qualit. judge	No

Reaction Rate Method	
Cycle	2
Factor	2
E2 corre	Not do
Blank (u)	9.999
Blank (d)	-9.999
Sample (u)	9.999
Sample (d)	-9.999

Analysis Test Condition Setting (M)		
Sample Type	Serum	Urine
Reac. sample vol.	1.0	1.0
Diluent method	No dil	No dil
Undil. sample vol.	0	0
Diluent volume	0	0
Diluent position	0	0

Prozone	
Prozone form	No
Prozone limit	9.999
Prozone judge	Upper limit
Judge limit	9.999
M-DET.P.m	0
M-DET.P.n	0
S-DET.P.p	0
S-DET.P.r	0

MULTI-STD Setting								
Formula	Spline	Axis Conv	No conv					
Blank	Blank-any value	Points	6					
BLK	#	1.0	No dil	0	0	0	9.999	-9.999
1	#	1.0	No dil	0	0	0	9.999	-9.999
2	#	1.0	No dil	0	0	0	9.999	-9.999
3	#	1.0	No dil	0	0	0	9.999	-9.999
4	#	1.0	No dil	0	0	0	9.999	-9.999
5	#	1.0	No dil	0	0	0	9.999	-9.999

# entered by user